19. (Thrice Amended) Isolated monoclonal antibodies, which can be obtained from hybridomas by a method comprising:

fusing non-secreting murine myeloma cells with spleen cells from mice immunized against an inactivated strain of the species *Taylorella equigenitalis* (*T.* equigenitalis) or extract(s) of such a strain,

cloning and selecting according to the capacity of their culture supernatant to recognize an epitope or epitopes of a bacterium of each of seven wild-type strains of the species T. equigenitalis, and to not exhibit a crossed reaction with Klebsiella pneumoniae, Pseudomonas fluorescens, Staphylococcus aureus, Streptococcus equi, Pasteurella haemolytica, Pasteurella multocida, Pseudomonas aeruginosa and Actinobacillus equuli, recovering the monoclonal antibodies, and optionally purifying said monoclonal antibodies.

23. (Twice Amended) A method of obtaining monoclonal antibodies according to claim 21, comprising:

fusing non-secreting murine myeloma cells with spleen cells from mice immunized by means of monoclonal antibodies or their Fv, Fab, and F(ab')2 fragments, which recognize an epitope of a bacterium of the species T. equigenitalis, and which do not exhibit a crossed reaction with at least Klebsiella pneumoniae, Pseudomonas fluorescens, Staphylococcus aureus, Streptococcus equi, Pasteurella haemolytica, Pasteurella multocida, Pseudomonas aeruginosa and Actinobacillus equuli,

screening hybridomas whose culture supernatants exhibit a positive reaction with one of the said monoclonal antibodies or their fragments,

selecting by cloning the hybridomas, and recovering the required anti-antibodies.

26. (Twice Amended) A method of identification of a bacterium of the species

Taylorella equigenitalis (T. equigenitalis) in a specimen or in a culture comprising:

bringing the specimen or the culture to be analyzed, which may contain T. equigenitalis, into contact with an effective quantity of at least one monoclonal antibody or Fv, Fab, or F(ab')2 fragment thereof according to claim 17, under conditions permitting a reaction of the antigen-antibody type, and

detecting any product formed in a reaction of the antigen-antibody type.

27. (Amended) A method of identification of a bacterium of the species Taylorella equigenitalis (T. equigenitalis) in a specimen or in a culture comprising:

bringing the specimen or the culture to be analyzed which may contain T.

equigenitalis into contact, under conditions permitting a reaction of the antigen-antibody type, with an effective quantity of a compound selected from the group consisting of an immunogenic protein and a monoclonal anti-antibody or Fv, Fab, and F(ab')2 fragment thereof, wherein said protein and anti-antibody or fragment thereof are capable of interacting with monoclonal antibodies or their fragments according to claim 17, so as to detect the presence of antibodies directed against T. equigenitalis, and

detecting any product formed in a reaction of the antigene antibody type.

28. (Amended) Method of diagnosis of an infection by *Taylorella equigenitalis* (*T.* equigenitalis) comprising:

bringing one or more monoclonal antibodies according to claim 17 or their fragments, into contact with a biological sample, and

detecting the reaction of the antigen-antibody type which is produced when T. equigenitalis is present in the sample.

30. (Thrice Amended) Kits for application of a method of identification of a bacterium of the species *Taylorella equigenitalis* (*T.* equigenitalis) in a specimen or in a culture, which include:

a monoclonal antibody or fragment according to claim 17, reagents, for detecting the intended immunologic reaction, optionally, reagents for blocking the non antigen-antibody reactions, and instructions for use.

38. (Amended) A method of obtaining a protein selected from the group consisting of *Taylorella equigenitalis* (*T.* equigenitalis) immunogenic proteins and *T.* equigenitalis anti-antibodies, comprising the use of a monoclonal antibody or fragment according to claim 17.